



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

APPLICANTS: Dieter RITTER CONFIRMATION NO.: 6358
SERIAL NO.: 10/824,225 GROUP ART UNIT: 2882
FILED: April 14, 2004
TITLE: "X-RAY APPARATUS AND METHOD TO PRODUCE A SURFACE IMAGE"

MAIL STOP DD

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

SIR:

In accordance with the provisions of 37 C.F.R. § 1.56, Applicant requests that citation and examination of the following documents be made during the course of examination of the above-referenced application for United States Letters Patent.

- AA United States Patent No. 6,491,430
- AB United States Patent No. 6,229,873
- AC United States Patent No. 5,923,727
- AL German PS 100 15 824
- AM German OS 40 21 102
- AU "A Simple and Flexible Calibration Method For Range Sensors,"
Blossey et al, Int. Conf. Of The ICO (April 1994), page 62
- AV "Laser Triangulation: Fundamental Uncertainty in Distance
Measurement," Dorsch et al, Applied Optics, Vol. 33, No. 7
(March 1994), pages 1306-1314
- AW "Three-Dimensional Sensing of Rough Surfaces by Coherence
Radar," Dresel et al, Applied Optics, Vol. 31, No. 7 (March
1992), pages 919-925.

AX "Acquisition of 3-D Data by Focus Sensing," Engelhardt et al, Applied Optics, Vol. 27, No. 22 (November 1988), pages 4684-4689

AY "Simple, Robust and Accurate Phase-Measuring Triangulation," Gruber et al, Optik, Vol. 89, No. 3 (1992) pages 113-122.

AZ "Light Sectioning With Large Depth and High Resolution," Häusler et al, Applied Optics, Vol. 27, No. 4 (December 1988), pages 5165-5169.

AV' "Parallel Three-Dimensional Sensing by Color-Coded Triangulation," Häusler et al., Applied Optics, Vol. 32, No. 35 (December 1993), pages 7164-7169.

AW' "Optische 3D-Sensoren und Deren Industrielle Anwendung," Blossey et al., Messtec, 1/96 (March 1996), pages 24-26.

AX' "Acquisition of Three-Dimensional Image Data by a Scanning Laser Range Finder," Moring et al, Opt. Eng., Vol. 28, No. 8 (1989) pages 897-902.

EXPLANATION OF RELEVANCE

The German counterpart to Reference AA, together with References AB, AC, AL and AM were cited by the German Patent and Trademark Office in connection with the counterpart German application.

Reference AC and References AU through AW' were identified and discussed in the present specification, and Applicant stands by the statements in the specification concerning the teachings of these references.

Copies of the above References together with Form 1449 (two sheets) are submitted herewith.

Complete translations of References AL and AM are not readily available to the Applicant, however, each of those references has an English language abstract attached thereto.

An English translation of Reference AV' is not readily available to the Applicant. That reference provides an overview of the use of optical 3D sensors for various industrial uses.

As of the date of mailing of this Information Disclosure Statement, a first Office Action on the merits has not been received in connection with this application. This Information Disclosure Statement is therefore in compliance with 37 C.F.R. §1.97(b)(3), and no fee is necessary.

All claims of the application are submitted to be patentable over the teachings of the above references, taken singly or in combination. Early consideration of the application is therefore respectfully requested.

Submitted by,

 (Reg. 28,982)

SCHIFF, HARDIN LLP, CUSTOMER NO. 26574

Patent Department, 6600 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606
Telephone: 312/258-5790
Attorneys for Applicant.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on August 17, 2004.



STEVEN H. NOLL



Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(use several sheets if necessary)

Docket No. P04,0101
Serial No. 10/824,225

Applicant
Dieter RITTER

Filing Date
April 14, 2004
Group Art Unit
2882

U.S. PATENT DOCUMENTS

Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date If appropriate
	AA	6,491,430	12/10/02	Seissler			
	AB	6,229,873	05/08/01	Bani-Hashemi et al.			
	AC	5,923,727	07/13/99	Navab			
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

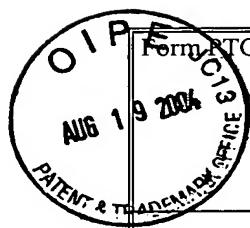
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL	100 15 824	11/21/02	Germany				
	AM	40 21 102	01/17/91	Germany				
	AN							
	AO							
	AP							
	AQ							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AT	
AU	"A Simple and Flexible Calibration Method For Range Sensors," Blossey et al, Int. Conf. Of The ICO (April 1994), page 62
AV	"Laser Triangulation: Fundamental Uncertainty in Distance Measurement," Dorsch et al, Applied Optics, Vol. 33, No. 7 (March 1994), pages 1306-1314
AW	"Three-Dimensional Sensing of Rough Surfaces by Coherence Radar," Dresel et al, Applied Optics, Vol. 31, No. 7 (March 1992), pages 919-925.
AX	"Acquisition of 3-D Data by Focus Sensing," Engelhardt et al, Applied Optics, Vol. 27, No. 22 (November 1988), pages 4684-4689
AY	"Simple, Robust and Accurate Phase-Measuring Triangulation," Gruber et al, Optik, Vol. 89, No. 3 (1992) pages 113-122.
AZ	"Light Sectioning With Large Depth and High Resolution," Häusler et al, Applied Optics, Vol. 27, No. 4 (December 1988), pages 5165-5169.

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(use several sheets if necessary)

Docket No. P04,0101	Serial No. 10/824,225
Applicant Dieter RITTER	
Filing Date April 14, 2004	Group Art Unit 2882

U.S. PATENT DOCUMENTS

Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date If appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
	AL						
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AT	
AU	
AV'	"Parallel Three-Dimensional Sensing by Color-Coded Triangulation," Häusler et al., <i>Applied Optics</i> , Vol. 32, No. 35 (December 1993), pages 7164-7169.
AW'	"Optische 3D-Sensoren und Deren Industrielle Anwendung," Blossey et al., <i>Messtec</i> , 1/96 (March 1996), pages 24-26.
AX	"Acquisition of Three-Dimensional Image Data by a Scanning Laser Range Finder," Moring et al, <i>Opt. Eng.</i> , Vol. 28, No. 8 (1989) pages 897-902.
AY	
AZ	

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.